Thilo Sothmann

List of Publications by Year
in descending order

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21	377	1040056	888059
papers	citations	9	17
		h-index	g-index

22	22	22	483
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparison of intelligent 4D CT sequence scanning and conventional spiral 4D CT: a first comprehensive phantom study. Physics in Medicine and Biology, 2021, 66, 015004.	3.0	9
2	Deep Learningâ€“Based Automated Thrombolysis in Cerebral Infarction Scoring: A Timely Proof-of-Principle Study. Stroke, 2021, 52, 3497-3504.	2.0	8
3	Skin Lesion Classification Using CNNs With Patch-Based Attention and Diagnosis-Guided Loss Weighting. IEEE Transactions on Biomedical Engineering, 2020, 67, 495-503.	4.2	98
4	Selfâ€contained deep learningâ€based boosting of 4D coneâ€beam CT reconstruction. Medical Physics, 2020, 47, 5619-5631.	3.0	20
5	Intelligent 4D CT sequence scanning (i4DCT): First scanner prototype implementation and phantom measurements of automated breathing signalâ€guided 4D CT. Medical Physics, 2020, 47, 2408-2412.	3.0	11
6	4D CT image artifacts affect local control in SBRT of lung and liver metastases. Radiotherapy and Oncology, 2020, 148, 229-234.	0.6	27
7	Time Matters: Handling Spatio-Temporal Perfusion Information for Automated TICI Scoring. Lecture Notes in Computer Science, 2020, , 86-96.	1.3	5
8	Intelligent 4D CT sequence scanning (i4DCT): Concept and performance evaluation. Medical Physics, 2019, 46, 3462-3474.	3.0	17
9	Combining Good Old Random Forest and DeepLabv3+ for ISLES 2018 CT-Based Stroke Segmentation. Lecture Notes in Computer Science, 2019, , 335-342.	1.3	3
10	Patient-specific 4D Monte Carlo dose accumulation using correspondence-model-based motion prediction. , 2019, , .		0
11	Self-consistent deep learning-based boosting of 4D cone-beam computed tomography reconstruction. , 2019, , .		3
12	Under-reported dosimetry errors due to interplay effects during VMAT dose delivery in extreme hypofractionated stereotactic radiotherapy. Strahlentherapie Und Onkologie, 2018, 194, 570-579.	2.0	19
13	Einfluss nicht-rigider Bildregistrierung auf 4D-Dosissimulation bei extrakranieller SBRT. Informatik Aktuell, 2018, , 188-193.	0.6	0
14	Influence of deformable image registration on 4D dose simulation for extracranial SBRT: A multi-registration framework study. Radiotherapy and Oncology, 2018, 127, 225-232.	0.6	16
15	GDL-FIRE$$^ext {4D}$$: Deep Learning-Based Fast 4D CT Image Registration. Lecture Notes in Computer Science, 2018, , 765-773.	1.3	25
16	Analysis of the influence of imaging-related uncertainties on cerebral aneurysm deformation quantification using a no-deformation physical flow phantom. Scientific Reports, 2018, 8, 11004.	3.3	5
17	Influence of 4D CT motion artifacts on correspondence model-based 4D dose accumulation. , 2018, , .		7
18	Technical considerations for automated low-pitch spiral 4D CT scanning protocol selection. , 2018, , .		4

#	Article	IF	Citations
19	Correspondence model-based 4D VMAT dose simulation for analysis of local metastasis recurrence after extracranial SBRT. Physics in Medicine and Biology, 2017, 62, 9001-9017.	3.0	8
20	4D dose simulation in volumetric arc therapy: Accuracy and affecting parameters. PLoS ONE, 2017, 12, e0172810.	2.5	8
21	A dosimetric comparison of real-time adaptive and non-adaptive radiotherapy: A multi-institutional study encompassing robotic, gimbaled, multileaf collimator and couch tracking. Radiotherapy and Oncology, 2016, 119, 159-165.	0.6	82